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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/645,533	08/22/2003	Hironobu Shinohara	241912US0X	8113	
22850 75	90 07/22/2004		EXAM	EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET			ZACHARIA, RAMSEY E		
ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER	
			1773		

DATE MAILED: 07/22/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

				X.
		Application No.	Applicant(s)	
Office Action Comme		10/645,533	SHINOHARA, HIRONOBU	
	Office Action Summary	Examiner	Art Unit	
		Ramsey Zacharia	1773	
Period f	The MAILING DATE of this communication apports. or Reply	pears on the cover sheet with the c	orrespondence address	
THE - External control	MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.1 In SIX (6) MONTHS from the mailing date of this communication. In period for reply specified above is less than thirty (30) days, a replet of period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing led patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tin y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from	mely filed /s will be considered timely. the mailing date of this communication.	,
Status				
1)[Responsive to communication(s) filed on			
		action is non-final.		
3)	Since this application is in condition for allowa			
	closed in accordance with the practice under E	-x рапе Quayle, 1935 C.D. 11, 45	วช O.G. 213.	
	ion of Claims			
4)⊠	Claim(s) <u>1-5</u> is/are pending in the application.			
دات	4a) Of the above claim(s) is/are withdraw	wn from consideration.		
	Claim(s) is/are allowed.			
	Claim(s) <u>1-5</u> is/are rejected.			
_	Claim(s) is/are objected to.			
8)[_]	Claim(s) are subject to restriction and/o	r election requirement.		
Applicat	ion Papers			
9)[The specification is objected to by the Examine	r.		
10)	The drawing(s) filed on is/are: a) ☐ acco	epted or b)⊡ objected to by the E	Examiner.	
	Applicant may not request that any objection to the			
	Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).	
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.	
Priority ι	ınder 35 U.S.C. § 119			
	Acknowledgment is made of a claim for foreign ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).	
	1. Certified copies of the priority documents	s have been received.		
	2. Certified copies of the priority documents	s have been received in Application	on No	
	3. Copies of the certified copies of the prior			
	application from the International Bureau		·	
* S	ee the attached detailed Office action for a list	of the certified copies not receive	d.	
Attachmen	(6)			
	e of References Cited (PTO-892)	4) 🔲 Interview Summary ((PTO.413)	
2) 🔲 Notic	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	te	
3) 🔲 Inform Paper	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date	5) Notice of Informal Pa	atent Application (PTO-152)	
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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fujimaki et al. (U.S. Patent 6,191,837) in view of Hani et al. (U.S. Patent 5,334,424).

Fujimaki et al. teach a liquid crystal display comprising first and second substrates with electroconductive films provided on one or both of the substrates (column 5, line 66-column 6, line 13). The electroconductive film may comprise a polythiophene (column 6, lines 40-55). a polarizing plate may be disposed on one side of the electroconductive film (column 6, lines 28-30). The electroconductive film has a surface resistivity of $100 \text{ k}\Omega$ /square, i.e. $10^5 \Omega$ /square (column 10, lines 8-11). The material of the electroconductive film further comprises an oxidant, which reads on the dopant of instant claim 3 (column 11, lines 4-11). The thickness of the electroconductive film is from 100 Å to 1 \mu m , i.e. less than 3 \mu m (column 11, lines 23-27). The material of the electroconductive film may comprise an organic binder (column 11, lines 28-35). A hard coat may be applied to improve mechanical strength and durability (column 13, lines 23-30).

Fujimaki et al. are silent as to the visible light transmission of the electroconductive film.

However, the film of Fujimaki et al. should intrinsically possess a visible light transmission of

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78% or more since it is composed of the same material as the instant conductive polymer, is formed to the same thickness, and is designed to be optically transparent since it is used as in a liquid crystal display.

Fujimaki et al. are silent as to the material of the substrates.

Hani et al. teach a norbornene resin for use as a substrate in liquid crystal displays which is excellent in many areas including transparency, processability, strength, flexibility, and resistance to heat, moisture, water, and chemicals.

One of ordinary skill in the art would be motivated to use the norbornene resin of Hani et al. for the substrate of Fujimaki et al. to yield a product with improved transparency, strength, flexibility, and resistance to heat, moisture, water, and chemicals.

Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ramsey Zacharia whose telephone number is (571) 272-1518. The examiner can normally be reached on Monday through Friday from 9 to 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Thibodeau, can be reached on (571) 272-1516. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

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system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Rameey Zacharia Primary Examiner

Tech Center 1700